

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1, 5, 8 and 13 and ADD new claim 14 in accordance with the following:

1. (currently amended) A bandpass filter, comprising an inductor having a non-gapped core that consists essentially of an Fe-based amorphous metal alloy ribbon, a linear BH loop having a squareness ratio that approaches zero over a field strength range of approximately -15 to +15 oersteds, and has a constant permeability over a frequency range of about 1 to 1000 kHz.

2. (cancelled)

3. (cancelled)

4. (previously presented) A bandpass filter as recited by claim 1, wherein said substantially constant permeability exists for a field strength range of approximately -15 to +15 Oe.

5. (currently amended) An inductor comprising a non-gapped core that consists essentially of an Fe-based amorphous metal alloy ribbon, a linear BH loop having a squareness ratio that approaches zero over a field strength range of approximately -15 to +15 oersteds, and has a constant permeability over a frequency range of approximately 1 to 1000 KHz.

6. (cancelled)

7. (original) An inductor as recited by claim 5, wherein said substantially constant permeability is extant over a field strength range of approximately -15 to +15 Oe.

8. (currently amended) In a method for limiting frequency communications, the improvement wherein there is utilized an inductor having a non-gapped core consisting essentially of an Fe-based amorphous metal alloy ribbon, having a linear BH loop having a

squareness ratio that approaches zero over a field strength range of approximately -15 to +15 oersteds, and having a constant permeability over a frequency range of about 1 to 1000 kHz.

9. (cancelled)

10. (cancelled)

11. (original) A method as recited by claim 8, wherein said core permeability is substantially constant over a magnetic field strength range of approximately -15 to +15 Oe.

12. (previously presented) A bandpass filter, comprising:

an inductor having a non-gapped core comprising an Fe-based amorphous metal alloy ribbon, having a linear BH loop, and having a permeability in a range of 400 to 1000 over a frequency range of about 1 to 1000 kHz.

13. (currently amended) A bandpass filter, comprising:

an inductor having a non-gapped core comprising an Fe-based amorphous metal alloy ribbon, and having a linear BH loop having a squareness ratio that approaches zero over a field strength range of approximately -15 to +15 oersteds,

wherein the permeability of the core is constant at near zero field over a field strength range of approximately -15 to +15 Oersteds (Oe).

14. (new) The filter of claim 1, wherein the center frequency of said filter has frequency shifts of less than 100 Hz up to the bias field of 15 Oe.